

Amendments to the Specification:

Please replace paragraphs [0094] and [0098] with the following amended paragraphs:

[0094] Figure 11A is a diagram illustrating the Doppler circuit 250 shown in Figure 2 according to one embodiment of the invention. The Doppler circuit 250 includes a carrier NCO 1110, a look up table 1120, two registers 1125 and 1127, and a mixer circuit 1130 1110.

[0098] The mixer circuit 1130 mixes the demodulated sample from the passive correlator 230 (Figure 2) with the coefficients (e.g., the sine and cosine values) from the look up table 1120 to generate a mixer sample. The mixer sample includes a mixer in-phase sample and a mixer quadrature sample. The mixer circuit 1130 includes mixer in-phase and quadrature circuits 1132 and 1134 1334 to generate the mixer in-phase and quadrature samples, respectively.